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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR			ATTORNEY DOCKET NO.		
09/116,589	07/16/98	NISHIKAWA		S	S Q51098		
	7				EXAMINER		
MMC2/0720 SUGHRUE MION ZINN MACPEAK & SEAS				CHANG.	Α .		
2100 PENNSYLVANIA AVENUE N W				ART UNIT	PAPER NUMBER		
WASHINGTON I)C 20037-32	02		2872			
				DATE MAILED:	07/20/01		

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary Examiner		Application No. Applicant(s)		Applicant(s)							
Examiner		09/116,589		NISHIKAWA ET	AL.						
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Application/Control Number: 09/116,589

Art Unit: 2872

DETAILED ACTION

Remark

- 1. This Office Action is in response to applicant's amendment filed on May 15, 2001 that has been entered as paper number 20.
- 2. By this amendment, the applicant has amended claims 28 and 29 and has canceled claim 63.
- 3. Claims 28 and 29 remain pending in this application.
- 4. The rejection to claim 29 under 35 USC 112, second paragraph, is withdrawn in response to applicant's amendment.

Claim Rejections - 35 USC § 112

- 5. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 6. Claim 29 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 29 has been amended to include the feature "a side ... that is not directly across from said photosensitive material" that appears to be confusing and indefinite. It is not clear if this side is referred to the side of the transmission hologram that is not <u>directly</u> or <u>immediately adjacent</u> to the photosensitive material. Clarification is required.

Claim Rejections - 35 USC § 103

7. Claim 28 is rejected under 35 U.S.C. 103(a) as being unpatentable over the patent issued to Kawazoe et al in view of the patent issued to patent issued to Minami (PN. 5,372,900).

The reasons for rejection base on the teachings of Kawazoe et al are set forth in the previous Office Action dated November 15, 2000.

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Claim 28 has been amended to include the additional feature having the reflection type relief hologram comprises a computer generated hologram. The Kawazoe et al reference does not teach this feature explicitly. However using a computer to generate hologram is extremely well known in the art and to use a computer generated hologram as a master hologram for recording a second hologram is also very well known in the art. Such is demonstrated by the teachings of Minami wherein a reflection type computer generated hologram (11, Figure 3) is used as a master hologram for recording a reflection type hologram on the photoresist plate (41, Figure 3). It would then have been obvious modification to one having ordinary skill in the art to apply the teachings of Minami to modify the master reflection type hologram of Kawazoe et al to make it a computer generated hologram for the benefit of providing an alternative way of making the master hologram.

8. Claim 29 is rejected under 35 U.S.C. 103(a) as being unpatentable over the patent issued to Molteni et al in view of the patent issued to Moss et al (PN. 5,016,953).

The reasons for rejection base on the teachings of Molteni et al are set forth in the previous Office Action dated November 15, 2000. The Molteni et al reference does not teach this feature explicitly. However using a computer to generate hologram is extremely well known in the art and to use a computer generated hologram as a master hologram for recording a second hologram is also very well known in the art. Such is demonstrated by the teachings of Moss et al wherein a transmission type computer generated hologram (29, Figure 2) is used as a master hologram for recording a reflection type hologram on the holographic plate (33, Figure 2). It would then have been obvious modification to one having ordinary skill in the art to apply the teachings of Moss et al to modify the master transmission type hologram of Molteni et al to make it a computer generated hologram for the benefit of providing an alternative way of making the master hologram.

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Response to Arguments

9. Applicant's arguments filed on May 15, 2001 have been fully considered but they are not persuasive. The newly added features to the amended claims have been fully considered and they are rejected for the reasons stated above.

10. Applicant's arguments are mainly drawn to the newly added features and they have been fully addressed in the paragraphs above.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Audrey Y. Chang whose telephone number is 703-305-6208. The examiner can normally be reached on Monday-Friday (8:00-4:30), alternative Mondays off.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cassandra Spyrou can be reached on 703-308-1637. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7722 for regular communications and 703-308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

A. Chang, Ph.D. July 17, 2001

Audrey Chang Primary Examiner Technology Center 2800